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### **ABSTRACT**

The present invention provides methods and compositions for enhancing in vitro synthesis of biological macromolecules in a cell-free system where ATP is required as a primary energy source, wherein said cell-free system is enriched with ATP-sulfurylase. The invention relates also to cell-free systems and cell-free extracts enriched with ATP sulfurylase for enhancing in vitro synthesis of any biological macromolecules.